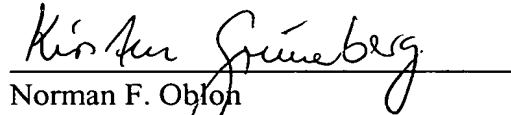


Applicants respectfully submit that the above-identified application is now in condition for examination on the merits, and early notice of such action is earnestly solicited.

Respectfully submitted,

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Characterized by further comprising

a pellet extrusion device wherein the crushed moldings are melt after mixing and pelletized to provide pellets which are then charged into said molding device.

51. An apparatus for recycling coated moldings according to Claim 50,

Characterized in that

said pellet extruding device is a single-screw extruder wherein the crushed moldings are melt mixed and extruded at a low speed at small revolutions of the screw.

52. A method for evaluating recyclability of reproduced coated moldings, characterized by comprising:

providing molding of test piece obtained by crushing and molding coated moldings which include moldings and a film formed on surfaces of the moldings by coating a paint constituted mainly of a thermoplastic resin having the same nature as or different nature from a thermoplastic resin used as a main constituent of the moldings and capable of repeatedly molding after mixing with the thermoplastic resin for said last-mentioned moldings;

coating the said molded test piece with a paint, which is constituted mainly of a thermoplastic resin having the same nature as or different nature from a thermoplastic resin used as a main constituent of said molded test piece and capable of repeatedly

molding after mixing with the thermoplastic resin for said molded test piece to provide the reproduced and coated test piece; and
subjecting said coated test piece or a cross hatch test to evaluate recyclability of the reproduced coated test piece based on the results of the test.

53. A method for evaluating recyclability of reproduced coated moldings,
characterized by
providing a mixed resin of a thermoplastic resin constituting moldings and a thermoplastic resin constituting a paint at a given ratio,
molding the mixed resin into a test piece of molding, and
subjecting the molded test piece to a cross hatch test to evaluate recyclability of reproduced-coated moldings based on the results of the test.

54. A method for evaluating recyclability of reproduced coated moldings according to Claim 53,
characterized in that
a state of dispersion of the thermoplastic resin used as a main constituent of said paint in a thermoplastic resin matrix used as a main constituent of the test piece which is a reproduced coated molding is evaluated by observation through a microphotograph.

55. A method for evaluating recyclability of reproduced coated moldings according to Claim 54,

characterized in that

recycling of reproduced-coated moldings is repeated, and a test for film properties is conducted in every repetition to evaluate recyclability of reproduced-coated moldings in every repetition from the transition in the results of the test.

56. A method for evaluating recyclability of reproduced coated molding according to Claim 55, characterized in that

recycling of reproduced coated moldings is repeated, and mechanical strength, thermal properties and other physical properties are measured in every repetition to evaluate recyclability of reproduced coated moldings in every repetition from the transition in the results of the measured physical properties.

ABSTRACT OF THE DISCLOSURE

Coated moldings coated, on surfaces of moldings, with paint constituted of a thermoplastic resin having affinity for a thermoplastic resin used as a main constituent of the moldings. Method and apparatus for recycling the coated moldings are also described in which the coated moldings are crushed by means of a crusher and the crushed moldings are molded in a mold to provide fresh moldings, followed by coating, by means of a coating device, the fresh moldings on surfaces thereof with a paint constituted of a thermoplastic resin having affinity for the thermoplastic resin for the moldings.

characterized in that

recycling of reproduced-coated moldings is repeated, and a test for film properties is conducted in every repetition to evaluate recyclability of reproduced-coated moldings in every repetition from the transition in the results of the test.

56. A method for evaluating recyclability of reproduced coated molding according to Claim 55,

characterized in that

recycling of reproduced coated moldings is repeated, and mechanical strength, thermal properties and other physical properties are measured in every repetition to evaluate recyclability of reproduced coated moldings in every repetition from the transition in the results of the measured physical properties.

57. (Added) A coated molding according to claim 13,

characterized in that

an aspect ratio of the thermoplastic resin as the main constituent of the paint dispersed in the form of islands is from 0.2 to 1.

58. (Added) A method for recycling coated moldings,

characterized in that

a molding, coated on a surface thereof with a paint composed of a thermoplastic resin having the same nature as or a nature different from said thermoplastic resin as the constituent of said

molding or a capable of repeatedly molding by heating and melting after mixing with said thermoplastic resin as the constituent of said molding, is crushed or pelletized, and

said crushed or pelletized molding is molded by heating and melting,

so that said thermoplastic resin as the constituent of said paint is dispersed in said thermoplastic resin as the constituent of said molding.

O.S.&w. File No. 9829-0001-0XPCT By NFO/ktv FF Use Date 10/14/98

Serial No. New U.S. PCT Application based on PCT/JP97/01227

In the Matter of the Application of Yasuhiro SUZUKI, et al

**For COATED MOLDINGS AND METHOD AND APPARATUS
FOR RECYCLING THE SAME**

The following has been received in the U.S. Patent Office on the date stamped hereon:

- ☒ 238 pps. Specification 56 Claims & 102 Pages of Tables (English Translation)
- ☒ Combined Declaration, Petition & Power of Attorney (3 pages)
- ☐ Verified Statement (Declaration) Claiming Small Entity Status
- ☐ Petition of Revive Under 37 C.F.R. 1.137 (b)
- ☒ Notice of Priority; ☐ Priority Doc. ()
- ☒ Check for \$ 2422.00; ☒ Dep. Acct. Order Form
- ☐ Assignment _____ pages/PTO-1595
- ☒ Drawings 53 sheets
- ☒ PCT Transmittal Letter
- ☐ Preliminary Amendment
- ☒ PCT/IB/304
- ☒ PCT/IB/308
- ☐ International Preliminary Examination Report
- ☐ Information Disclosure Statement; ☐ PTO-1449
- ☐ Cited References ()
- ☒ International Search Report
- ☒ Request for Consideration of Documents Cited in International Search Report
- ☐ Statement of Relevancy
- ☐ Written Opinion
- ☐ Letter Regarding Translation of Annexes
- ☒ Translation of Annexes to International Preliminary Examination Report
(Amended Sheets 13-16, 17a, 17b, 19, 20a, 20b, 32, 33, 34a, 34b,
38-42, 219, 220a, 220b, 222, 223, 224a, 224b, 237a, 237b)
- ☐ Rule 132 Declaration

**23 Rec'd PCT/PTO 14 OCT 1998
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